State of Michigan Department of Environmental Quality

Land and Water Management Division 7953 Adobe Road Kalamazoo MI, 49009-5026 269-567-3500



File No. ()7-03-0039-P

Date: July 13, 2007

PUBLIC NOTICE

Otsego Paper, Inc., 320 North Farmer Street, Otsego, Michigan, 49078, has applied to this office for a permit under authority of Part 301, Inland Lakes and Streams, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The applicant proposes to excavate, fill, and riprap along approximately 2400 linear feet of the bank and within the 100 year floodplain of the Kalamazoo River at 320 N. Farmer Street. The purpose of the project is to provide bank stabilization per the Baseline Environmental Assessment, Excavation activities include the clearing and grubbing of approximately 800 cubic yards of material from approximately 2400 feet of riverbank and excavating approximately 950 cubic yards to reshape the bank for a total of 1750 cubic yards of excavated spoils. Dredging is not proposed with this project. Spoils will be placed onsite. Fill activities along 2400 feet of riverbank include bank reshaping of 950 cubic yards; the placement of 800 cubic yards geocell material, planted with appropriate seed mix; and rip-rap installation of 1900 cubic yards at the toe of the riverbank, 1400 cubic yards of which will be below the ordinary high water mark; for a total of 3650 cubic vards of fill. A run-off control berm will be constructed, with materials brought in from offsite, along 2800 linear feet at the top of the bank above the 100-year floodplain. A total of approximately 2,850 cubic yards (includes 950 cubic yards of bank reshaping) of fill below the 100 year floodplain is proposed without compensating cut. During geocell installation approximately 144 cubic yards of spoils will be removed and 144 cubic yards of fill will be placed in 0.27 acres of wetland. Mitigation is not proposed. The project is located in T1N, R12W, Section 23, City of Otsego, Allegan County, Michigan, in accordance with plans attached to this notice.

THIS NOTICE IS NOT A PERMIT

The proposed project may also be regulated by one or more additional parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, that are administered by the Land and Water Management Division (LW MD). The requirements of applicable parts are considered in determining if it is in the public interest to issue a permit.

When a permit application is received requesting authorization to work in or over the inland waters of the State of Michigan, pursuant to PART 301, INLAND LAKES AND STREAMS, OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT, 1994 PA 451, AS AMENDED, the Act provides that the department submit copies for review to the department of public health, the city, village or township, and the county where the project is to be located the local soil conservation district, any local watershed council organized under Part 311, and the local port commission. Additional notification is provided to certain persons as required by statute or determined by the department.

Those persons wanting to make comments on the proposed project shall furnish this office with their written comments no later than 20 days from the date of this notice. Written comments will be made part of the record and should reference the above file number. Objections must be factual, specific, and fully describe the reasons upon which any objection is founded. Unless a written request is filed with the department within the 20-day public comment period, the department may make a decision on the application without a public hearing. The determination as to whether a permit will be issued or a public hearing held will be based on evaluation of all relevant factors defined in Sections 30106 and 30311, or permit criteria defined by other appropriate Parts of the NREPA. These Sections address the effect of the proposed work on the public trust or interest including navigation, fish, wildlife, and water quality among other criteria. Public comments received will also be considered.

cc: DEQ, RRD, Lansing, Superfund

DNR, Wildlife-Plainwell

Allegar Co. Clerk

Allegar Co. Drain Comm.

(US Gypsum) Otsego Paper, Inc., applicant

LWMD Floodplains-Kalamazoo

ERM, Inc.

DNR, Fisheries-Plainwell Allegan Co. Health Dept. City of Otsego Clerk

Allegan Soil Conservation Dist.

History Division

USACE

see file for adjacent property owners

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Previous USACE Parmit or File Number	RECE	IVED	Land and Water Mana	gement Divisio	n, MDEQ File Numb	AGENCY
SACE File Number	Second WAY 2.	2007	Marina Operating Pen	nit Number	•	
SACE File Number Valamazo - B. Zimon Comp ete all items in Sections 1 through 9 and those	PERMIT CONSOLI	DATION UNIT	Fee received \$ 75 (5) Toject. Clear drawing	s and cross s	L Uia C ections must be p	
PROJECT LOCATION INFORMATION Refer to your property's legal description for the Tov	mehin Panga and Section inf	ormation and your no	onarhi tav hill for vour	Dronorty Tay	Identification Num	shar(a)
Address	mship, range, and occurring	Township Name(s)	sporty tex bill for your	Township		Section(s)
320 N. Farmer Street		Otsego		TIN	R12W	23
City/Village County(ies)		Property Tax Identif				
Otsego Allegan		See Attachme		N	155.4	
Name of Waterboov Kalamazoo Aliver Job Numbe	ne or r <i>Geocell Installation</i>	Subdivision/Plat	Lot	Number	Private Claim	
	blic/government	industrial	⊠ co	mmercial	4	i-family
(check all that apply) building addition ne	w building or structure	building renovation of	or restoration 🔲 riv	er restoration	sing	le-family
	allation of Geocell slope					Report
The proposed project is on, within, or involves (check a		gally established Cour	•			
a stream a pond (less than 5 ac	· · · · /	eat Lake or Section 1		atural river	a new marina	
□ a channel/canal □ a channel/canal □ a ditch or drain □ an inland lake (5 acres		signated <i>high risk erc</i> signated <i>critical dune</i>			a structure rer a utility crossir	
☐ a ditch or drain ☐ an inland lake (5 acres ☐ a floodway area ☐ a 100-year floodplain	·	signated <i>environment</i>			isting waterbody	iy
Attach separate sneets, as needed, including neces See project description, associated activities.	•			ed in Atta	ichment B	
APPLICANT, AGENT/CONTRACTOR, AND PRO The applicant can be either the property owner or the If the applicant is a corporation, both the corporation	e person or company that prop	oses to undertake the written document auth		ractor to act o	on their behalf.	
	į	Agent/Contractor		_		
Applicant		•	act person) ERM,	Inc		
(individual or corporate name) Otsego Paper, In)C	Attn: Mike Bed	<u>**</u>		 	
Mailing Address 320 N. Farmer Street		Address <i>3352 12</i>	8th Avenue			_,
City Otseyo State Michig 49078	gan Zip Code	City <i>Holland</i>		State M.	I Zip Coo	de <i>49424</i>
Daytime Phone Number with /vea Code Cell Phone 269-692-6417 732-770		Daytime Phone Nun 616-738-7320			Cell Phone Numb <i>616–283–715</i>	
Fax 269-592-2060 E-mail HKrell®		Fax 616-399-3			ke.beck@erm.	.com
Is the applicant the sole owner of all property on which If No provide a letter signed by the property owner auth attach all property owners' names, mailing addresses, a or any other encumbrance upon the property in the pro-	orizing the agent/contractor to and telephone numbers. Disck	act on his or her beha se any DEQ conserv estriction must be prov	alf or a copy of easem ation easements or of	ents or right-c	of-ways. If multiple	
Property Owner's Name		Mailing Address				- 7
(If different from applicant) Daytime Phone Number with Area Code Cell Pho	ne Number	City		State	Zip Code	

	## A 1 4 14 14 14 14 14 14 14 14 14 14 14 14
PROPOSED PROJECT PURPOSE, INTENDED USE, AND ALTERNATIVES CONSIDERED (Attach add	ditional sheets if necessary)
The purpose must include any new development or expansion of an existing land use. Include a description of alternatives considered to avoid or minimize resource impacts. Include factors such	h as but not limited to alternative construction technologies:
 Include a description of alternatives considered to avoid or minimize resource impacts. Include factors such alternative project layout and design; alternative locations; local land use regulations and infrastructure; and 	
For utility crossings, include both alternative routes and alternative construction methods.	
This application is to implement recommendations from the BEA Report for the r	required installation of engineering
controls/isolation barrier (for riverborne contamination potentially affecting the	
This will be by geocell bank stabilization and berm at top of bank. Further inform	
LOCATING YOUR PROJECT SITE Provide the requested information listed below to help staff locate your project site.	
Attach a copy of a map, such as a plat, county, or USGS topographic map, clearly showing the site location	and include an arrow indication the north direction
Project area must be staked at the time of application submittal.	and more an arrow measuring the floral endoctors.
Is there an access road to the project? No X Yes (If Yes, type of road, check all that apply) X private	public improved unimproved
Directions from main intersection South on Farmer St. to main gate of the facility, use p	
Style of house or other building on site ranch 2-story cape cod bi-level cottage/cabin offices	pole barn in none in other (describe) papermill and
Color Color of adjacent property house and/or buildings	
House number Address is visible on house garage mailbox sign	other (describe)
Street name Farmer Street Fire lane number Lot num	nber
How can your site be identified if there is no visible address? Large structure just north of the k	Calamazoo river, on the east side of rarmer
Street	. Other to state the subsequent and a second control of the second
Provide directions to the project site, with distances from the best and nearest visible landmark and waterbody	SITE IS VISIDIE WHEN TACING NOTTHEAST TOWN
Farmer Street bridge over the Kalamazoo River	
Does project cross boundaries of two or more political jurisdictions? (City/Township, Township/Township, Cou	mb/County of \
□ No ™ Vac (If Vac liet imediction names). Site conserve from City of Otenoa to Township	n of Oteano at eactern most and of neonanty
No Yes (If Yes, list jurisdiction names.) Site crosses from City of Otsego to Township	
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issuance of a permit.

	H-H	US Army C	orps of Eng	ineers (USACE)		1	Aichiga	Department of Envi	ronmentai Qua	lity (MDEQ)	DEQ
				items in Sections 1 th		•					
								es where you have provide	d information.		
				if the application form				nts included with your appl	ication <i>Applicat</i>	ion Sections	1-10
•								drawings;site vicinit	• •		
				•			_	ter, and river mode	•	•	
	Submit	3.5" by 11," 8.5	by 14" or 11"	by 17" size drawings	with 4 copies.	The USACE	requires	one set of drawings on 8.5			
				submitted in addition t							
Ť		ty Owner	ircim the owne	r must be included if n Printed Name	iot signed beid	w by the ow	Signat			Date (M/D/	Υ)
Z		Contractor					-		_	- Caro (11176)	.,
	Corpo	ation - Title		Mike Beck				nce prec	<u>し</u>	7/7	107
								KE OR STREAM OR A GR	EAT LAKE		
		-	•	applicable to your project	•	•					
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				ire an application for c						_	
						ill water elev	ation. On	inland waters, 🔲 NGVD 2	9 🔲 local datum	\boxtimes other $\it USGS$	5
		water elevation		date of observation All Sample Drawings		/_/					
						n feet (ft) time	es the ave	rage width (ft) times the av	erage depth (ft) and	divide by 27.	
•	Attacl	both plan and		iews to scale showing	maximum an				orage dopur (it) and	uivido by E1.	
		all that apply)	2 floodplain			⊠ riprap		seawall, bulkhead, or reven		or culvert	
	poa:		off-shore	swim area beac	h sanding	☐ boatwell		crib dock	other		
	-111 oime .ength	nsions (ft) 2400 wi	dtr <i>approx</i> .	10 mavimu	ım depth <i>apı</i>	neav 2		fill volume (cu yd) IO [800 (geocell),	Maximum water depth in fill area (f	1) () to 5 (nic	
٠	.cngii	1.400 W	dii dippi ba	10 maxim	жи чери <i>чр</i> ј	7 VA E		bank shaping,	depur in ini asea (i	() 0 10 5 (11)	, rup
								O (rip rap)]			
	· .										
7		clean fill 🔲 pe		sand 🗌 gravel				Will filter fabric be used			
		chips 🔯 oth						☐ No ☐ Yes (If Yes,		<u>e</u>	
				ite, show location on s		commercia		other, If other, attach desc			
				ter from the shoreline				water. Fill Drawing 7, for excavation se	volume below OHW		
								rage width (ft) times the ave			ا ا
				ews to scale showing						- ,	
	*****			ent sampling is require							
	Dheck a D navig	that apply)	L⊠ ficodp ☐ boat w	lain excavation	☐ wetland	dredge or dra	uning	i seawall, bulkhead i other	d, or revetment		}
		e/excavation		Dimensions	Doat lauf		edae/exc	avation volume below	Method and equip	ment for dredgin	a
	•	yd) <i>1750</i>		length varies width	<i>varies</i> de		HWM (cu		CAT 345 exc	•	-
				varies - see dra					grub, shape b		
				sted for contaminants				spoils be placed 🛛 on-site			sal area
		Yes (If Yes,		edged?⊠No□Ye				ispose off site, provide add	ress and letter of au	inonzation.	
				previously dredged a) bennst m	uniber, ii avaliable)	, , ,		
				ned? No Yes			ch?)			. ,	
				See Sample Drawing				ers may apply)			
						Dimensions	(ft) lengt	h <i>varies</i> width <i>vari</i>	es depth		
R	iprap w	aterward of the	shoreline (R 🛛 ordinary high ı	water mark	varies -		·		Volume(cu yd)	1500
						Dimensions	length	varies width varies	depth		1
				ordinary high water		varies				Volume(cu yd)	
		iorap [_] field	stone [_] and	gular rock 🛛 other	6 to 12 in	nch diame	ter	Will filter fabric be used u	nder proposed ripra	o? 🗌 No 🖾 Y	res
	tone	C DDATEATIO	N DDO ICOTO	(Can Cample Danger	00 2 2 5 4	7)		(if Yes, type)			
		that apply)	n 1.KME212	(See Sample Drawin	ya z, J, and T					niect	
		- length (ft.)	[] seawall/bulkhead	length (ft.)		evetment	BECEIV	Distances of probability both prope	rty lines (ft)	į
	DOCK	- PIER - MOO	RING PILINGS	(See Sample Drawin						'- <i>1</i> .	
		open pile					Seaso	nal structyre? []No] []	97		
P	ropose:	: structure dime	ensions (ft) len	gth width			Dimen	sions of nearest adjacent si	tructures (ft) length	width	

F. BOAT WELL. (No Sample Drawing available)

US Army Corps of Engineers (USACE)

Michigan Department of Environmental Quality (MDEQ)

<u> </u>	nyl 🗌 ripr	 					
Boat well dimensions (ft)		1	Number of	tioats			
Length width depth Volume of backfill behind sidewall stabilization (cu yd)			Distances	of boat	well from adjacent pro	verty lines (ft)	
G. BOAT LAUNCH (No Sample Drawing available) (check all that	anniu) [] n				private commercia		
Proposed overall boat launch dimensions (ft)	арріу) 🗀 іі						HOIT.
length width depth		Type of ma	aterial L	conci	rete wood ston	e 🔲 other	
Existing overall boat launch dimensions (ft)			h dimensi		below ordinary high wa	ater mark	
Length width depth	Alumbas	Length		widt			
Distances of launch from both property lines (ft)	Number of skid piers			ļ	Skid pier dimensions (ft) width	lengti	h "
☐ H. BOAT HOIST (No Sample Drawing available)	Gilla prore				cinteriorio (it) Widai	Toriga	
(Check all that apply) seasonal permanent cradle	side lifter	·-				-	
other				cated			ttomlands
☐ I. BOARDWALKS AND DECKS IN ☐ WETLANDS - OR - ☐ FLO							
	alk or deck				Dimensions (ft)	length	width
Continued - PROJECTS IMPACTING WETLANDS OR FLOO				INLA	ND LAKE OR STREAM	OR A GREA	TLAKE
J. INTAKE PIPES (See Sample Drawing 16) OUTLET PIPES (See Sample Drawing 16) OUTLET PIPES (See Sample Drawing 16)		let pipe, dis		to T	wetland inland	lake	
pipe other		tream, drair	-		Great Lake other	70.10	
Dimensions of headwall	*			Numbe	er of pipes	Pipe diame	ters and invert
· · · · · · · · · · · · · · · · · · ·	pth					elevations	
 K. MOORING AND NAVIGATION BUOYS (No Sample Drawing ava Provide an overall site plan showing the distances between each 		nooe from th	ao chara t	s each	huov, and donth of wat	ar at each hu	ov in fact
Provide an overall site plan showing the distances between each Provide cross-section drawing(s) showing anchoring system(s) as			ie silvie it) eacii	booy, and depin or wat	BI AL BACII DUL	Jy iii i oo t.
Number of buoys Type of anchor system				Purpos	se of buoy mooring	☐ navigat	ion swimming
Dimensions of buoys (ft)					e shoreline? 🔲 No 📗] Yes	
width height GROINS (No Sample Drawing available)	If No	, you must p	rovide an	author	ization letter from the p	roperty owner	(s)
and the distance from the existing toe of the bluff to the lakeward of the sisting groins are located on adjacent properties, provide distant Provide cross-section views showing the length and height of each show the height of each section above the observed water level. Number of groins Type of groin steel wood	nces (ft) from n groin and t	n closest ne the height of	f <i>groin</i> end	ls abov	re the observed water le	vel (date and	time). If step down type,
other		(ft)) length			width	height	
 M. FENCES IN WETLANDS, STREAMS, OR FLOODPLAINS (No S Provide an overall site plan showing the proposed fencing through Provide drawing of fence profile showing the design, dimension, p 	n wetlands,	streams, or	floodplain		e from ground to botton	n of fence (if in	n a floodplain).
(check all that apply) Total length (ft) of fence th	rough			Fence height (ft)	Fence type	and material
wetlands streams floodplains wetlands	streams	s fl	oodplains			<u> </u>	
wetlands streams floodplains wetlands N. OTHER - e.g., structure removal, marine railway, low sand trap we	all, breakwa	fer, and stru	Sample D	ndation	s in wetlands or floodp	ECI	IVED
Which best describes your proposed waterbody use (check all that apply)		<u> </u>	<u> </u>			JUL 4	1 2007
☐ wildlife ☐ stormwater retention basin ☐ stormwater detention	on basin	recreation	n 🗌	waste	water basin	7	1 2007
Water source for lake/pond	7	"		-ر	7	MDEQ/	LWMD
☐ groundwater ☐ natural springs ☐ Inland Lake or Stream ☐ Location Of the lake/basin/pond ☐ floodplain ☐	stormwat wetland	er runom	uplanc		sewage other	PIMIT CONSO	LIDATION UNIT
Will project involve construction of a dam, dike, outlet control structure, or	spillway?	No □ Ye	es (If Yes.	compl	ete Section 17)	 	•
12 ACTIVITIES THAT MAY IMPACT WETLANDS (See Sample Draw			<u>, , , , , , , , , , , , , , , , , , , </u>			· · · · · ·	
For information on the MDEQ's Wetland Assessment Program, visit th							
(check all that apply)			_		leck (Section 10I)	•	add accept
fences (Section 10M) bridges and culverts Has a professional wetland delineation been conducted for this parcel?			draining rovide a co			chased prope	add geocell
method was used, supply data sheets)							October 1, 1980.
s there a recorded DEQ easement on the property? 🛛 No 🗌 Yes (If Y	es, provide	the number	r)				
Has the MDEQ conducted a wetlend assessment for this parcel? No							
Describe the wetland impacts, proposed use or development, and efforts to				be the	wetland alternatives and	i provide the f	type and amount of
mitigation proposed if more than 1/3 acre is to be impacted. See wetlad is any grading or mechanized land clearing proposed? No	na aeiine	arion re		v of th	e proposed grading or i	nechanized la	and clearing been
(If Yes show locations on site plan)					No Des (If Yes		

1	US	Army	Corps	of	Engineers	(USAC
_						

							plan)			··-	
Complete the wetland dredge and wetla Attach ac ditional sheets if necessary ar dredge and/or fill area. Also complete so fidredge material will be disposed of or	nd label the impacte Section 10A for fill a	ed we	tland ar ection 1	reas or IOB for	a site dredge	plan dr	awn to scale. Attach at least of avation activities.				nd
	naximum length (ft)		naximur			dredg		average (dredge volur	ne (cu vd)
1 -	1600		15		. 1.9		res sq ft 0.27	0.33		144	(00)0)
	naximum length (ft		naximur	n width	(ft)	fill are		average o	depth (ft)	fili volume (d	zu yd)
1	1600		5			⊠ ac	res sq ft 0.27	0.33		144	• •
Total wetland dredge area							Total wetland				
⊠ acres [] sq ft <i>O 27</i>							dredge volume (cu yd)	144			
Total wetlan: I fill area							Total wetland				
☑ acres [] sq ft <i>O. 27</i>	71 111						fill volume (cu yd) 144	<u> </u>	16.7		
The proposed project will be serviced by D private septic system (If septic system)		i now	00		lf conti	ic cueto	m, has application been made	to the	∥f Yes, h ☐ No	as permit bed	en issued?
expanded system on plans)	i, show existing and	1 (1011	OI .				Department for a permit?			res provide a cop	v)
13 FLOCIDPLAIN ACTIVITIES (See Sa	ample Drawing 5	Other	s may a	noniv)					N		
Attach additional sheets with the reque					lain act	ivities a	re included in this application.				
(check all that apply) 🗵 fill 💢 exc	cavation 🛛 other	Cle	ear, g	rub,	shape	bank	t, place Geocell along i	river ban	k per BEA		
Site is approx 12 feet above 🗌 ordin	nary high water ma	rk (Ol	HWM) (OR 🛛	observ	ed wate	er level. Date of observation	(M/D/Y) A	pril/16/200	0 <i>7</i>	
					-		Compensating cut volume	below the			
Fill volume b∌low the 100-year							100-year floodplain elevat	ion (cu yd)	none- bas	ed on hyd	raulic
loodplain elevation (cu.yd) 2350 rip r 14 BRIDGES AND CULVERTS (Includ							modeling	····			
 Provide detailed site-spec fic drawing Oross-Section (Sample Drawing 14C) Provide the requested information that if you choose to have a Licensed Provincluding the 100-year flood discharge report supporting this certification management.), Stream Profile (S at applies to your pr fessional Engineer e, then you must us ay also be required.	ample oject. "certi se the	e Drawi . If then fy* that • "Requi	ng 14E e is no your p red Ce)) and <i>I</i> t an exi roject w ertification	Floodpla isting st vill not co on Lang	ain Fill (Sample Drawing 5) at tructure, leave the "Existing" of tause a "harmful interference" guage." You may request a co	a scale ade olumn blank for a range	quate for detai c. of flood discha	led review. arges up to a	nd
Attach additional sheets with the requ	ested information v	vhen		cross sting		e includ oosed	ed in this application.			Existing	Proposed
Culvert type (box, circular, arch) and mater	ial			July	110		Bridge span (length perpendic	ular to etro	am)	LANGUING	Порозес
corrugated metal, timber, concrete, etc.)		_	L		<u>. </u>		OR culvert 🔲 width 🔲 diar				
Bridge type (concrete box beam, timber,	R	E	CE	ΠĀ	E	5	Bridge width (parallel to stream				1
oncrete I-beam, etc.)							OR culvert length (ft)				ļ
Intrance design		IJĹ	4	1 20	107		Bridge rise (from bottom of be				
projecting, mitered, wingwalls, etc.) otal structure waterway opening		-	-		 		Culvert rise (from top of culve	n to stream	ibea) (n)		<u> </u>
bove streambed (sq ft)		M	EQ/L	WM.	þ						
elevation of culvert crown	Upstream	WIT (CONSOL	JOATIC	N UNIT		Higher elevation of culvert	invert OR	Upstream		
	 		 		<u> </u>		streambed within culvert (
bottom of pridge beam (ft)	Downstrea	am .					Sueambed widin current (· · · · · · · · · · · · · · · · · · ·	Downstream		
levation of rcad grade at struct ire (ft)							Distance from low point of roa				
levation of low point in road (ft)			 		ļ		to mid-point of bridge crossing	(ft)			<u> </u>
levation of low point in road (π)					1						
ross-sections/ area of primary channe (so	ı ft)		l		Avorse	no etros	m width at OHWM		Upstrean		
See Sample Drawing 14C)	1 ''-7						fluence of the structure (ft)		Downstre		
					· · · · · ·				DOMISHE	airi	-
deference datum used (show on plans with	description)	VGVD	29	IGLE	85 (Gi	reat La	(es coastal areas) 🔲 local				
ligh water elevation - describe reference p	oint and highest kn	юwп	water le	vel ab	ove or l	below r	eference point and date of obs	ervation.			
STREAM, RIVER, OR DRAIN CON Complete Section 10A for fill, Section 10 If side casting or other proposed activitic Provide an overall site plan showing exichange activities. Provide cross-section For activities on legally estat lished cour	0B for dredge or ex es will impact wetta isting lakes, stream n (elevation) drawin	cava ands c as, we ags ne	tion, an or <i>flood;</i> etlands, ecessar	d Sectional Sectional Section	ion10C comple her wat early sh	for <i>ripra</i> te Sect ter featu ow exis	ap activities. ions 12 and 13, respectively. ires; existing s <i>tructure</i> s; and tl ting and proposed conditions.				nd land
check all that apply) [] maintenance [new drain wetlands	other			

D	16	h
и	٦.	

Dirnensions (ft) of existing stream/dra	nin channel to be	worked on. length	3200	width 10	depth 0-3		
Dimensions (ff) of new, relocated, or						Volume of Dexcavation	redgel (cuyds) <i>soil will be mass balanced</i>
length width	dep					across le	ngth of the bank.
Existing channel average water depti	n in a normal yea	ar (ft)		1 '		pes (vertical 1 feet ve	horizontal) No greater than 2 fee
How will slopes and bottom be stabili	zed?			noriz	zoniai 10	1 /66/ 76	rrica
Geocell and geotextile							
Will old/enclosed stream channel be	backfilled to top	of bank grade? 🔀	No 🗌 Yes	to be aba	f channel andoned (ft)		Volume of fill (cu yds) O
If an enclosed structure is proposed,	check type 📋	concrete 🗀 cor	rugated metal	plastic	$oximes$ other $oldsymbol{\mathcal{G}}$	eoceli mei	mbrane filled with sand and
topsoil above the water line		_		f fill <i>1900 (</i>)			
Dimensions of the structure size of Will spoils be disposed of on site?		7 feet Yes, show location					
Reference datum used (show on plan	s with description	on)	GLD 85 (Gr	eat Lakes coasta	al areas)	local	
16 DRAWDOWN OF AN IMPOU • If wetlands will be impacted, als	NDMENT	····					
Type of drawdown over winter [C annual aven	- Compone	(dam roma	ran 🗀 ottor	
Type of drawdown over writer t	_; temporary	one-ume event	annuar even	. Themene	(dan lano	/ai) Uuk	1
Reason for drawdown						Pre	vious MDEQ permit
Has there been a previous drawdown	? 🗌 No 🗀 Ye	es (If Yes, provide d	ate (M/D/Y)	1 1			nber, if known
Does waterbody have established leg	al lake level? [No ☐ Yes ☐	Not Sure			Dan	n ID Number, if known
	RECE		Impoundme	nt			nber of adjacent or
drawdown (ft)			design head				acted property owners
Date drawdown would start	MAY 2	\$ 2007	Date drawdo				e of drawdown
(M/D/Y) / /	וריוויו אי ניייייייייייייייייייייייייייייי		would stop (Date refill	M/D/Y) /			tay) e of refil
Date refilling would start (M/D/Y) / /	MDEQ/L	WMD	would end (I	10M /	,	(ft/d	
Type of outlet discharge structure to	ENUIT CONSOLI	DATION UNIT	Impoundme				ay) iment depth behind impoundment
surface bottom mid	-depth		1 '	r level (acres)			harge structure (ft)
17 DAM, EMBANKMENT, DIKE,			TURE ACTIVIT	IES (See Sampl	le Drawing 1		
 If wetlands will be impacted, als 							
 Attach site-specific conceptual p Detailed engineering plans are i 							ting dam for resource impact review.
 Attach detailed engineering plan 						nemai stand	SOUR.
Which one best describes your project			reconstruction		7	enlargement	of an existing dam
🔲 dam repair 🔃 dam alteratio	n 📋 dannaaba	ndonment [] dam removal			other	1
Dam ID Number		Type of outlet disch					wdown of the waterbody to complete the
If known		surface bot			No Li Yes		complete Section 16)
Riprap		Dredging/excavatio	n	Fill volume			icture allow complete
Volume (cu yd) Benchmark	Datum use	Volume (cu yd)		(cu yd)	D	 _	of waterbody? No Yes
elevation (ft)	Local	☐ NGVD 29	other		Describe dei	nchmark and	show on plans
Have you engaged the services of a L				res, name, regis	tration numb	per, and mail	ing address)
		•	,				,
Will a water diversion during construct	tion be required	No Yes (If	Yes, describe h	ow the stream flo	ow will be co	ntrolled throu	igh the dam construction area during the
proposed project activities)		. <u> </u>	,,				grote barroof barded and daring all
Th. 6.11							
 The following additional informations: Describe the type of dam and how you 							am.
	i will acsidit file	uam anu eneankm	an to comitor set	shade mionâu si	no uncernea	uiule <i>Uam</i> i.	
Embankment top	Streambed	i elevation at downs	ream Str	uctural height (d	ifference het	ween embar	elevation
elevation (ft)	embankme						bankment toe) (ft)
Embankment length (ft)			Embankment be		Embankme	·	Upstream
					(vertical / h	•	Downstream
					_ 		

PROJECT NARRATIVE

To implement Baseline Environmental Assessment requirements, the new property owner (applicant) proposes to replace some existing wetlands vegetation with new wetland vegetation, excavate (clear and grub) and fill the existing Kalamazoo River bank, and place rip rap within the 100-year floodplain. The project site is located near the intersection of the Kalamazoo River and Farmer Street in Otsego. A total of 0.27 acres of wetland will be temporarily disrupted in order to clear and grub a portion of the existing river bank area wetlands prior to stabilization with geocell seeded with wetland seed mix. A total of 1750 cubic yards of riverbank will be excavated (cleared and grubbed and reshaped) within the 100-year floodplain in order to stabilize the river bank with geocell fill (800 cubic yards). Approximately 1900 cubic yards of rip rap will be placed below the 100 year floodplain elevation to protect the toe of the stabilized bank without compensating cut based on the results of hydraulic modeling. A small runoff control berm will be placed above the 100 year flood plain elevation (as determined by hydraulic modeling) at the top of the stabilized river bank and stabilized.

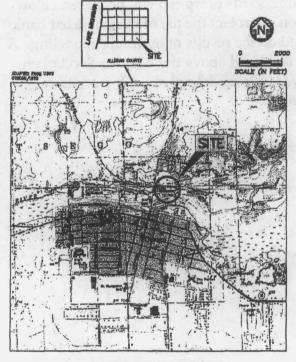
RECEIVED

JUL 4 1 2007

MDEC/LWMD PERMIT CONSOLIDATION UNIT

U.S. GYPSUM (RIVER BANK S

PROJECT JUNE



SITE LOCATION MAP

SECTION 23 T.1NL-R.12W.
OTSEGO TOWNSHIP
ALLEGAN COUNTY
OTSEGO, MICHIGAN

Land & Water Mgt. Div.

JUN 2 8 2007

Permit Consolidation Unit

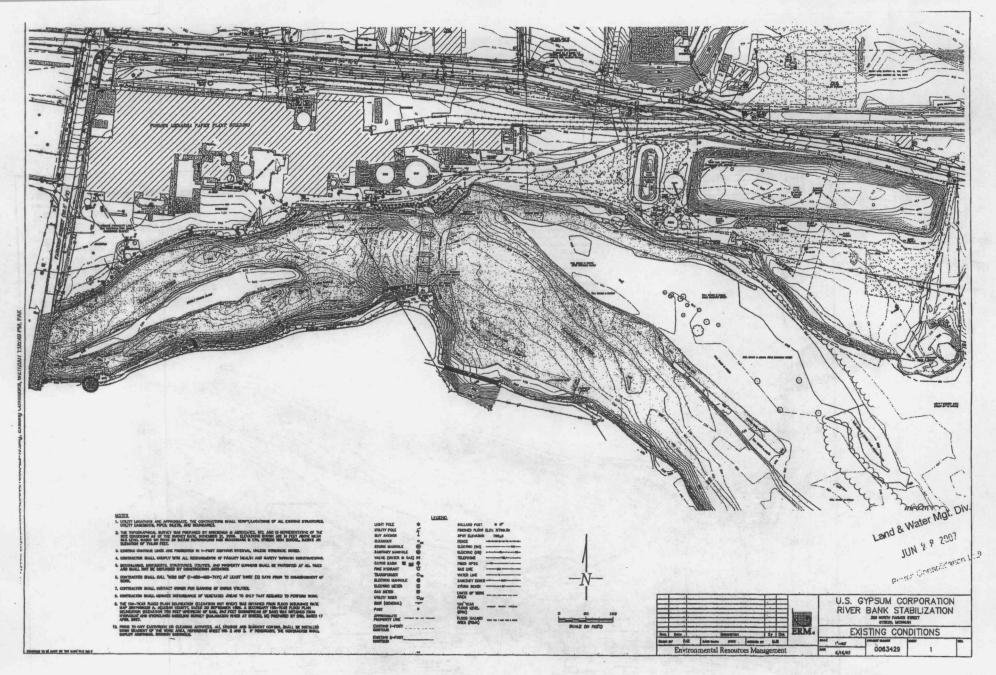
LISTING OF

1. EXISTING

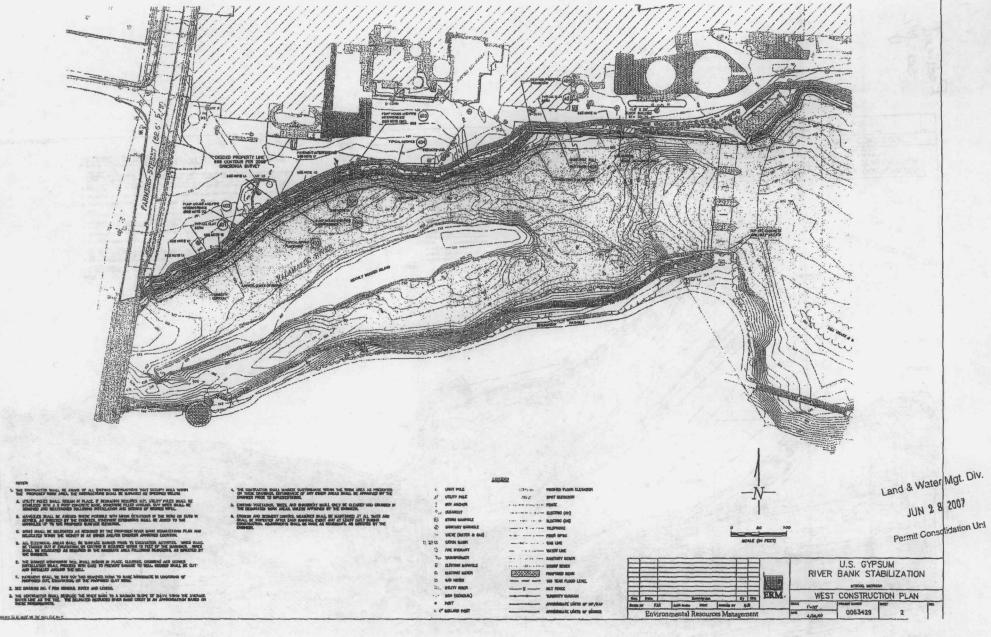
2. WEST C

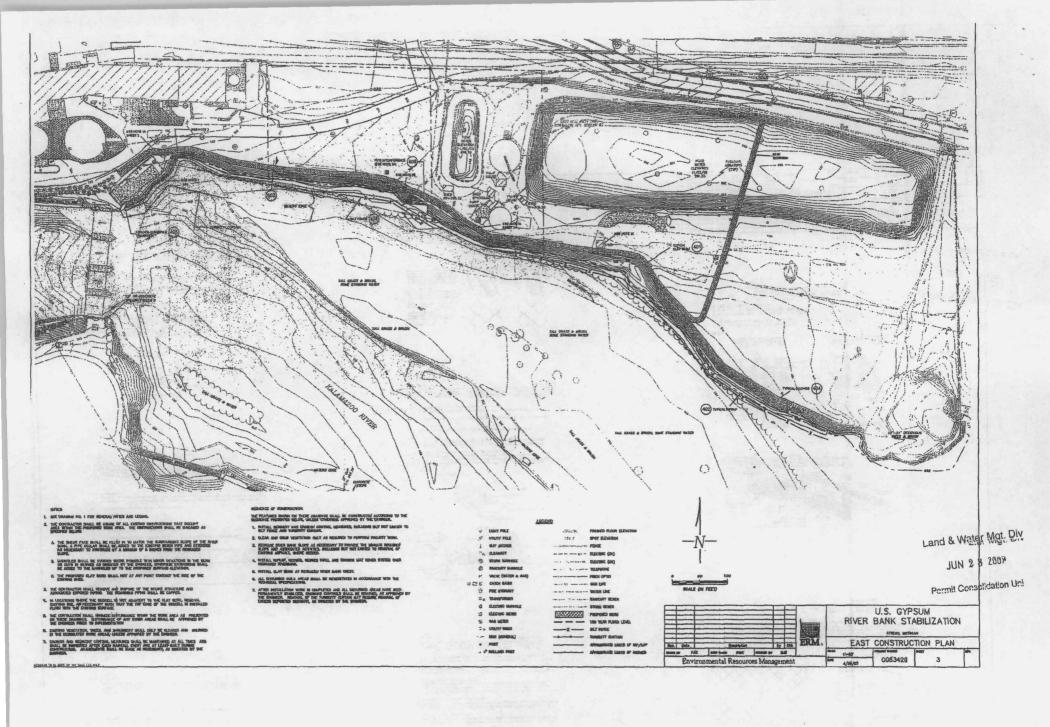
4. CONST





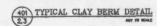
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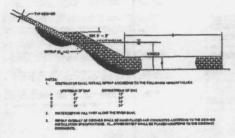


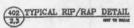


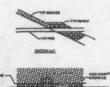
1. THE CONTRACTOR SHALL SCARFY THE CLAY AT THE INTERPACE BETWEEN THE CLAY AND VENETATIVE COVERS.

2. IF RESIDED, ASPARAT SHALL BE REMOVED IN LOCATIONS OF THE PROPERSO CLAY









WOTER

1 BROWN DIESE SE SANDERA DED AFOLDED ALL DATES PROTECTIONS FROM THE BLOW

TYPICAL PIPE INTERFERENCE DETAIL NOT TO SEALE



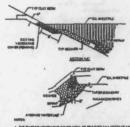
 THE CONTRACTOR SHALL USE OF SHAREST, MANUFACTURER PRESENT, METALLATION SHALL BE AS A PROPRED METHY THE CONTRACT DOCUMENTS, BY THE MANUFACTURER, OR AS CITE CTED BY THE SHE MESIA.

 WHEN LIGHT THAN CHE SCRIPT OF OVERSES RECURSED, SECTIONS SHALL BE ACHERICOUS SPECIMED IN THE TYPICAL SECNICE CONSECTION SETTLE, GRAS DIRECTED BY THE INFORMER, SIE DETAIL 465 THE SHEET.

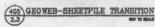
3. THE AND ADDRESS AND THE SECRET OF THE SHAREST NATIONAL ADDRESS AND ADDRESS

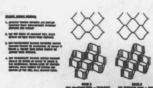
1. THE CONTRACTOR SHELL VEGETATE AND PLACE ERORICH NATTING WITHIN ? GAYS OF THE COMPLETED HIS TALL ATHOM AS SHED FRO WITHIN THE CONTRACT COCKADATE.

TYPICAL GEOWER DETAIL

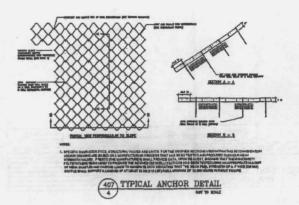


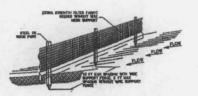
- THE BRISTON VEGETATIVE COVER WALL BE REVIOUED TO A DEPTH OF 1 REVIEW FROM THE 10P OF THE SHEETPRE TO A LOCATEM COMM THE SLOPE I FEET, ATA LOCATION I PRET COMM THE SLOPE, THE SHEWALD SLEVANDOW SHEWLING TARRESO MERTCHASH LYTHE SEET THE SEETS SHEWALD SEETS.
- Bosting yeogtative removal small be everly tapered from the exceptal To a Cistaice a freet from the enemple and exercise empacement to be
- P. EXCHANTED BOILS BOULL SE VILED AS SPECIFIED WITHIN THE CONTRACT
- THE AREA'S REMOVED SHALL SE REPLACED WITH DECOMES AND REPLEAS DETAILED.
- THE SECRET OF THE PROPERTY OF THE SECRET SHAPE THE SHEET PLE AND

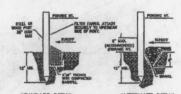




408 TYPICAL GEOWEB CONNECTION DETAIL NOT TO SCARE







AND REPAIR FENCE AFTER EACH STORM NO RELIGIE SERVICE THEN RESEARCY.

408 SILT FENCE DETA

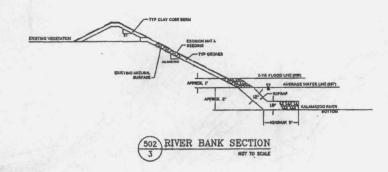
Land & Water Mgt, Div.

JUN 7 % 2007

Permit General Idation Uni

										RIVER	U.S. GYP BANK ST	ABILIZATIO	ON
Phins.	Deta	-		Separtelier		By	Dia	ERM.		ÇOI	STRUCTION	DETAILS	5
Opens	-	t FAK	0400 Roder	Attel	otom Pr	N.	8		Medi	NOTED	Librail aradis	460	NEV.
	Env	itoni	nental R	Lesou re	es Mana	lgen	nent		BAR	h/4/47.	0063429	4	

501 RIVER BANK SECTION NOT TO SCALE

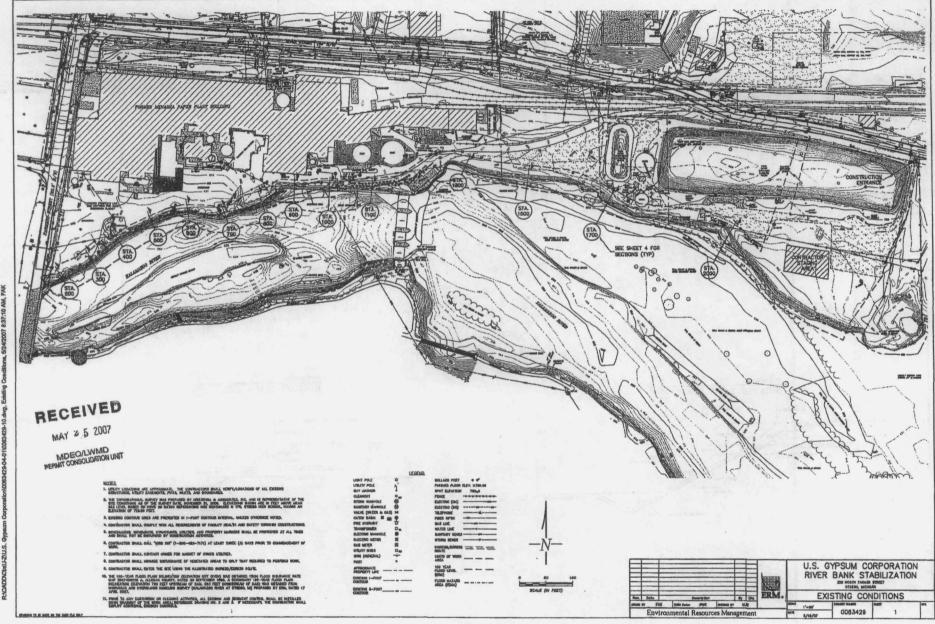


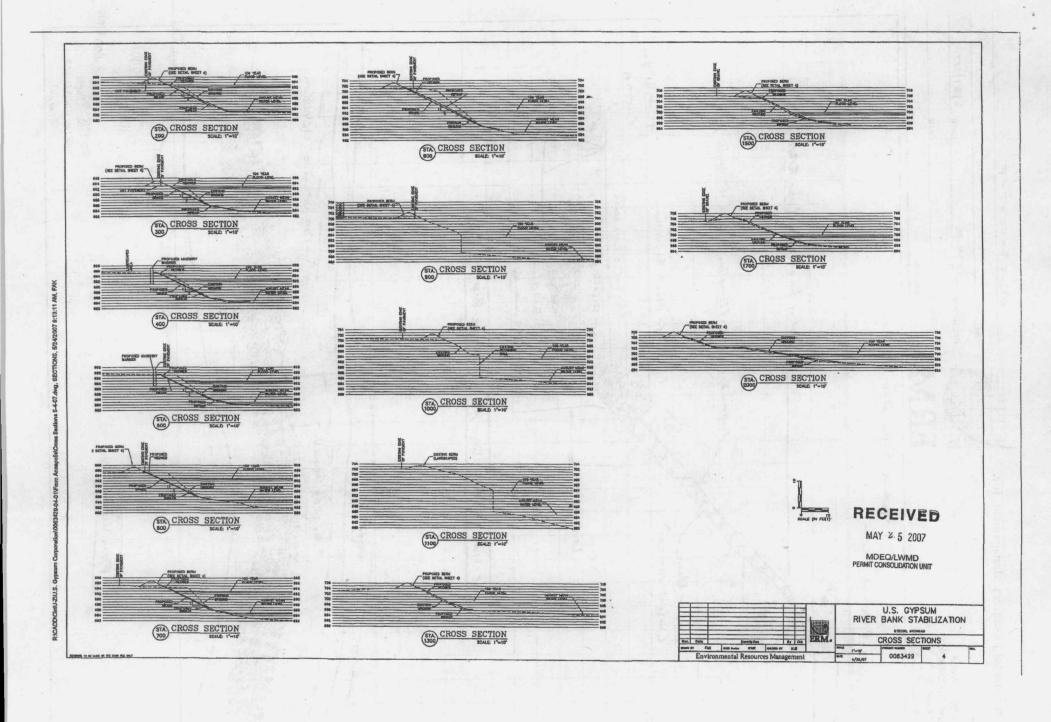
Land & Water Mgt. Div.

JUN 2 8 2007

Permit Consolidation Unit

Defeat	PY I	W & FAK	mental R	RINE	benen m	_			BANK	HOTED	0063429	0001	100
Rips.	De			merplier		Bf	Chi	ERM.			SECTIO		
										RIVER	U.S. GYF	ABILIZATI	ON





Environmental Resources Management, Inc.

3352 128th Avenue Holland, MI 49424-9263 (616) 399-3500

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07-03-0039-P SHEET NO. _ DATE 6/27/67 MUB CALCULATED BY

CHECKED BY _

616) 399-3777 (fax)		SCALE NONC	
	Proposed Ban	E Stabilization	
Proposed	Berm		
9-16			
2'			
			
1		100 yr flood elev. (per Frem)	
max, 1	1		·
Z	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	roposed accell/Erosion Mat (4" thick)	
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CHeight	(ancis)	ZYL Elook Elevation +7 the with	+-
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		0688	_
		#5-10' 	
		Waterwark>	+
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	cetian - Below Dar	n Requires More Rep Pape	
		↑	
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	BEZM		
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	Edge of Geocell	7 - Floor yr. Hood elevation	
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	NARCOLIN	Turbidity Curtain - Land & Water Mi	ju -
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	Plan View		ei en m
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